

In the Claims:

1-17. (Canceled)

18. (Currently Amended) The method of Claim ~~17~~ 21, wherein the amount of compound of Formula II, administered to the mammal is sufficient to achieve a concentration on the cervical and/or vaginal mucosa of from about 10^{-7} moles/liter to about 10^{-1} moles/liter.

19. (Currently Amended) The method of Claim ~~17~~ 21, wherein the amount of compound of Formula II, administered to the mammal is sufficient to achieve a daily dose of between 1 to 1000 milligrams.

20. (Currently Amended) A method of stimulating cervical and vaginal secretions in a mammal in need thereof by administering an effective secretion stimulating amount of a compound of P^1 , P^4 -di(uridine 5'-) tetraphosphate to a mammal in need thereof.

21. (Currently Amended) A method of treating a mammal with vaginal dryness by administering an effective vaginal treatment amount of a compound of P^1 , P^4 -di(uridine 5'-) tetraphosphate to a mammal in need thereof.

22. (New) The method according to Claim 21, wherein said compound is topically administered to the cervical or vaginal mucosa of the mammal in a form of a solution, gel, suspension, cream, foam, ointment, pessary, or tablet.

23. (New) The method according to Claim 21, wherein said compound is systemically administered to the mammal.